



2015 Summer Scholars School Enrichment

UNC-Charlotte Center for STEM Education

Identifying Brownfield Sites

SUMMER 2015

This summer high school students participating in the Summer Scholars High School Enrichment Program hosted by the UNC-Charlotte Center for STEM Education identified brownfield sites for their GIS project. Students generated maps using Google Maps web application and performed basic descriptive analysis using real world data. Students will present their findings combining their Brownfield maps, text, photos, charts and graphs.

The Geographic Information Systems (GIS) Workshop offered by the UNC-Charlotte Center for STEM Education is designed to introduce students to geographic information systems (GIS) utilizing open source, freely available and/or open web based GIS technologies. GIS uses spatial information and software to map, analyze, and model real world problems such as Brownfields.

Instructor Information:

Tonya Farrow-Chestnut | PhD (c), MA | Dept. Geography & Earth Sciences

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little sugar creek greenway & stream restoration

Sedgefield
Montessori
Middle School

Charlotte, NC

An Overview of Little Sugar Creek

SUMMER 2015

Sedgefield Montessori Middle School students will present an overview of their studies on Little Sugar Creek. Students investigated the physical habitat, stream biology as well as water chemistry of Little Sugar Creek. Groups will present their findings from this year's study in a variety of formats.

This study has been made possible by the partnership with Queens University, Discovery Education Studies and Mecklenburg County Storm Water Services. Sedgefield Montessori is one of several schools participating in the study of Little Sugar Creek. The goal is to present the overall data from each school's findings at the 2016 GIS Day.

Instructor Information:

Mindy Mahar | MEd, Secondary Montessori, NBCT

Secondary Montessori Coordinator | Sedgefield Montessori Middle School

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JN FRIES MIDDLE
SCHOOL

CONCORD, NC

A Study of Tree Health in Relation to Erosion on JN Fries Campus

SUMMER 2015

JN Fries Middle School students used Mobile GIS (ArcGIS Collector) and field measurement equipment to collect field data on trees, including the species, height, diameter, health and growing conditions. Collective GIS (ArcGIS Online) is the method and platform for team mapping and analysis of tree health in relation to erosion and other environmental conditions. The project methodology and results are presented in the form of an ArcGIS Online Story Map.

Instructor Information:

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